

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 23, 2003, 13:41:37 ; Search time 280 Seconds  
(without alignments)  
12469.280 Million cell updates/sec

Title: US-09-745-506-74  
Perfect score: 1553  
Sequence: 1 GTGATTGATCTTGCTGCT.....TCTGTTACTTACATTCAA 1553

Scoring table: IDENTITY\_NNC  
Gapop 10.0 , Gapept 1.0

Searched: 1517243 seqs, 1124081882 residues

Total number of hits satisfying chosen parameters: 3034486

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database: Published\_Applications\_NA:\*

1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:\*  
2: /cgn2\_6/ptodata/1/pubpna/PCr\_NEW\_PUB.seq:\*  
3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*  
5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:\*  
6: /cgn2\_6/ptodata/1/pubpna/PCrUS\_PUBCOMB.seq:\*  
7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:\*  
8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:\*  
9: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq:\*  
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11: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*  
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13: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*  
14: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*  
15: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*  
16: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*  
17: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1442.4	92.9	1681	US-10-198-846-13222	Sequence 13222, A
2	868	55.9	2922	US-10-177-900-10	Sequence 10, Appl
3	731.4	47.1	1614	US-10-198-846-12938	Sequence 12938, A
4	459.6	29.6	817	US-10-027-632-161386	Sequence 161386, A
5	459.6	29.6	817	US-10-027-632-161387	Sequence 161387, A
6	396.8	25.3	480	US-09-198-846-6276	Sequence 6276, Ap
7	392.2	25.3	480	US-09-198-846-6276	Sequence 19746, A
8	288.2	18.6	394	US-09-960-352-10848	Sequence 10848, A
9	265.6	17.1	765	US-10-027-632-16268	Sequence 16268, A
10	220.4	14.2	465	US-09-864-761-10530	Sequence 10530, A
11	208	13.4	208	US-09-864-761-27152	Sequence 27152, A
12	188.4	12.1	638	US-10-198-846-9256	Sequence 9256, Ap
13	167.8	10.8	501	US-09-783-590-8477	Sequence 8477, Ap
14	47.6	3.1	805	US-09-974-300-2768	Sequence 2768, Ap
15	45.6	2.9	4159	US-09-070-927A-7	Sequence 7, Appl
16	43	2.8	861	US-10-156-761-5852	Sequence 5852, Ap

17	43	2.8	9025608	US-10-156-761-1	Sequence 1, Appl
18	40.2	2.6	5006	US-09-837-751-7	Sequence 7, Appl
19	38.6	2.5	6277	US-10-311-455-2013	Sequence 2013, Ap
20	38.2	2.5	7128	US-10-311-455-1532	Sequence 1532, Ap
21	37.8	2.4	556	US-10-027-632-221986	Sequence 221986, A
22	37.8	2.4	17419	US-10-311-455-1268	Sequence 1268, Ap
23	37.8	2.4	17419	US-10-240-453-112	Sequence 112, Ap
24	37.8	2.4	17419	US-10-339-676-100	Sequence 100, Ap
25	37	2.4	5882	US-10-311-455-518	Sequence 518, Ap
26	36.8	2.4	757	US-10-207-655-210	Sequence 210, Ap
27	36.8	2.4	1566	US-10-207-655-233	Sequence 233, Ap
28	36.8	2.4	18154	US-10-311-455-127	Sequence 127, Ap
29	36.6	2.4	585	US-10-027-632-179476	Sequence 179476, A
30	36.6	2.4	585	US-10-027-632-179477	Sequence 179477, A
31	36.4	2.3	796	US-10-027-632-7354	Sequence 7354, Ap
32	36.2	2.3	310	US-09-869-373-591	Sequence 591, Ap
33	35.8	2.3	402	US-09-954-456-17	Sequence 17, Appl
34	35.8	2.3	402	US-09-954-456-616	Sequence 616, Ap
35	35.8	2.3	576	US-10-027-632-259690	Sequence 259690, A
36	35.8	2.3	659	US-10-027-632-259691	Sequence 259691, A
37	35.8	2.3	659	US-10-027-632-259691	Sequence 1333, Ap
38	35.4	2.3	5921	US-10-311-455-1333	Sequence 1722, Ap
39	35.4	2.3	11805	US-10-311-455-1722	Sequence 1423, Ap
40	35.2	2.3	602	US-09-880-107-1423	Sequence 22, Appl
41	35.2	2.3	636	US-10-184-644-22	Sequence 139, Ap
42	35.2	2.3	636	US-10-184-644-22	Sequence 661, Ap
43	35.2	2.3	2808	US-09-799-777-139	Sequence 399, Ap
44	35.2	2.3	3180	US-10-044-090-661	
45	35.2	2.3	9810	US-10-311-455-399	

## ALIGNMENTS

RESULT 1  
US-10-198-846-13222  
Sequence 13222, Application US/10198846  
Publication No. US20030099974A1  
GENERAL INFORMATION:  
APPLICANT: Lillie, James  
APPLICANT: Xu, Yongyao  
APPLICANT: Wang, Youzhen  
TITLE OF INVENTION: Steinmann, Kathleen  
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS  
TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
FILE REFERENCE: MRI-049  
CURRENT APPLICATION NUMBER: US/10/198, 846  
CURRENT FILING DATE: 2002-07-18  
PRIOR APPLICATION NUMBER: 60/306, 220  
PRIOR FILING DATE: 2001-07-18  
NUMBER OF SEQ ID NOS: 14084  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13222  
LENGTH: 1681  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 1, 2, 1675, 1676, 1677, 1678, 1679, 1680, 1681  
OTHER INFORMATION: n = A,T,C or G  
US-10-198-846-13222

Query Match 92.9% Score 1442.4; DB 14; Length 1681;  
Best Local Similarity 97.2% Pred. No. 0;  
Matches 1502; Conservative 0; Mismatches 36; Indels 8; Gaps 3;  
Oy 3 GATTGTATCTTGCTGCTGCAGACAGAGAGAGATTGGTCAAGAACTGCC 62  
Db 3 GATTGTATCTTGCTGCTGCAGACAGAGAGAGATTGGTCAAGAACTGCC 62  
Oy 63 TGCCGACAGACAGACAGACAGACAGATTGGGACAGAGGCTCTGACTGACTTAACCTGGCT 122  
|||||

Db	63	TGCCGACACCAAGACACAGCGACTAGTGGGACAGGGGTCGAGTCAAGACTTAACGTGCT	122
QY	123	GTGTCGTGCGTTTTCTACTGTCTCTGGAAAAAGCCTGAAGTGGCACTGAATGAGCATTA	182
Db	123	GTGTCGTGCGTTTTCTACTGTCTCTGGAAAAAGCCTGAAGTGGCACTGAATGAGCATTA	176
QY	183	GATGAGTCCCGACGACGACGTCCGGTGTGAGATTCCTCATGTGCAAAATCTTCCGGTCTCT	242
Db	177	GCCCAAGTCCCGACGACGACGTCCGGTGTGAGATTCCTCATGTGCAAAATCTTCCGGTCTCT	236
QY	243	TCATGAGATTTGAAAGGCTCTCCTTTCTTCTTGAATGACTTTTGCAACCCCTCGTTGGCTG	302
Db	237	TCATGAGATTTGAAAGGCTCTCCTTTCTTCTTGAATGACTTTTGCAACCCCTCGTTGGCTG	296
QY	303	AGAAGTGGGACAAATGTGGATTACTGGTGGGAACCAAGCCACACATCTGTAAATPACAC	362
Db	297	AGAAGTGGGACAAATGTGGATTACTGGTGGGAACCAAGCCACACATCTGTAAATPACAC	356
QY	363	TCCTTCCTACCAATGACCTGACTGAGGAAGATGAGAGAGGTGCTGAAAAAGAGGACG	422
Db	357	TCCTTCCTACCAATGACCTGACTGAGGAAGATGAGAGAGGTGCTGAAAAAGAGGACG	416
QY	423	ACGTCATTTCTCTCTACCATCCGCTATCTTCCGACCCTAGAAAGCGCATTAACCTTGACA	482
Db	417	ACGTCATTTCTCTCTACCATCCGCTATCTTCCGACCCTAGAAAGCGCATTAACCTTGACA	476
QY	483	CATGGAAGAGACCGCTCGTGATCCGGGCTCTGGAGACACAGTGGGTATCTACTCTCCTC	542
Db	477	CATGGAAGAGACCGCTCGTGATCCGGGCTCTGGAGACACAGTGGGTATCTACTCTCCTC	536
QY	543	ATTACAGCCTTAGATGCTCGGCCACAGGGCGTCAACACTGGTGGCTTAAAGGGCTTGGAC	602
Db	537	ATTACAGCCTTAGATGCTCGGCCACAGGGCGTCAACACTGGTGGCTTAAAGGGCTTGGAG	596
QY	603	CTTGTACTCCAGGCGCCATACATCTCTTCCAAAGCTCCCACTACCTTACAGAGGGAACCC	662
Db	597	CTTGTACTCCAGGCGCCATACATCTCTTCCAAAGCTCCCACTACCTTACAGAGGGAACCC	656
QY	663	ACCGAGTAGAATTCAGAGTCACTACACCCACAGACCTTGAGACAAATGATCTGTGCAGTGA	722
Db	657	ACCGAGTAGAATTCAGAGTCACTACACCCACAGACCTTGAGACAAATGATCTGTGCAGTGA	716
QY	723	AAGGAATTGAGGCGTTCCTGCTCACTTCTTTTCTGCTAGGACGTGGTATGAGGAACAA	782
Db	717	AAGGAATTGAGGCGTTCCTGCTCACTTCTTTTCTGCTAGGACGTGGTATGAGGAACAA	776
QY	783	CACGAGTTAATCTGAATGTACTCAGAGAGGCTTTGATCAGAGTGGTAAATTTCTTCTCC	842
Db	777	CACGAGTTAATCTGAATGTACTCAGAGAGGCTTTGATCAGAGTGGTAAATTTCTTCTCC	836
QY	843	GGAACAAACAACCTTATCAGAAAGACGGAATTTCTGCTACTGGAGAGGCTTTGCTTCTAC	902
Db	837	GGAACAAACAACCTTATCAGAAAGACGGAATTTCTGCTACTGGAGAGGCTTTGCTTCTAC	896
QY	903	ATACTGGAATGGGACGTTATGACACACTGGATGAATCTGTCTCCTGGCAACCATGATTG	962
Db	897	ATACTGGAATGGGACGTTATGACACACTGGATGAATCTGTCTCCTGGCAACCATGATTG	956
QY	963	ATCGAATPAAAAAGACACCTAAACACTATCTATTTCCGTTGACCTTGGGGGGGGGAGAA	1022
Db	957	ATCGAATPAAAAAGACACCTAAACACTATCTATTTCCGTTGACCTTGGGGGGGGGAGAA	1016
QY	1023	CCTTAGAGTCCAAGTCAAAAGTCTGTGGCCCTGTGTGCTGCTTCTTGGAGAGACGCTTCTGC	1082
Db	1017	CCTTAGAGTCCAAGTCAAAAGTCTGTGGCCCTGTGTGCTGCTTCTTGGAGAGACGCTTCTGC	1076
QY	1083	AGGCGTTGAGGCTGACCTTACTCTCACAGGTGAGATGCTCCATCATGATACTTGTGATG	1142
Db	1077	AGGCGTTGAGGCTGACCTTACTCTCACAGGTGAGATGCTCCATCATGATACTTGTGATG	1136
QY	1143	CTGCTTCCCAAGGAATAATGTATCTCTCTGTGAACACAGACACTAACAGAGCTTTC	1202
Db	1137	CTGCTTCCCAAGGAATAATGTATCTCTCTGTGAACACAGACACTAACAGAGCTTTC	1196

[illegible]

Db 1129 CCTGACCAATGACTGACGAGGAGGTCATGAGAGGCTCTGCAAAAAGAGCAGACTT 1070  
Oy 427 CATCTCTCTACCATCCGCTATCTCTCCGACCATGAGGCGATTAACCTGGACACATG 486  
Db 1069 CATCTCTCTACCATCCGCTATCTCTCCGACCATGAGGCGATTAACCTGGACACATG 1010  
Oy 487 GAAGAGGCGCTGTGATCCGGGCTGTGAGAACAGATCGGTATCTACTCTCTCATAC 546  
Db 1009 GAAGAGGCTGTGATCCGGGCTGTGAGAACAGATCGGTATCTACTCTCTCATAC 950  
Oy 547 AGCTATGATCTGCGCCCGCAGGCGTCACAACTGGTGGCTTAAGGGCTTGAAGCTTG 606  
Db 949 AGCTATGATCTGCGCCCGCAGGCGTCACAACTGGTGGCTTGAAGCTTG 890  
Oy 607 TACCTCCAGGCCCATATCTCTCCAAAGCTCCCAACTACCTCCAGAGGGAACCCACCG 666  
Db 889 CACTACCAAGGCCCATATCTCTCCAAAGCTCCCAACTACCTCCAGAGGGAAGCTCACCG 830  
Oy 667 AGTAGAATTCACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCT 726  
Db 829 ACTAGAAATTCAGTGTGAACCGCAGCAAGACCTGGACAAATCATGTCTACAGTAGAG 770  
Oy 727 AATTGAGGCTGTCTGTCTACTCTTTTCTGTCTAGACCTGTATGAGAACAAACCG 786  
Db 769 GGTGTGAGGCTGTCTGTCTACTCTTTTCTGTCTAGACCTGTATGAGAACAAACCG 710  
Oy 787 GATTAAATCTGAATGTTACTCTAGAAAGCTTTGATGAGGCTGTATGAGTTCTTCCCGAA 846  
Db 709 GATCAGGCTGAATGTTACTCTAGAAAGCTTTGATGAGGCTGTATGAGTTCTTCCCGAA 650  
Oy 847 CAACAACTTTATCAGAAAGCGAAATCTGTACCTGTGAGAGAGCTTGTCTTACATAC 906  
Db 649 CAGCAACTTTATCAGAAAGCTTTGATGAGGCTTTGATGAGAGAGCTTGTCTTACATAC 590  
Oy 907 TGGATGGGAGGCTGTGAGAACCTGTGAGAACCTGTGAGAACCTGTGAGAACCTGTGAG 966  
Db 589 TGGATGGGAGGCTGTGAGAACCTGTGAGAACCTGTGAGAACCTGTGAGAACCTGTGAG 530  
Oy 967 AATAAAGAGACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTA 1026  
Db 529 AATCAAAACACACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCT 470  
Oy 1027 AGAGTCTCAAGTCAAAAGTGTGAGAACCTGTGAGAACCTGTGAGAACCTGTGAGAAC 1086  
Db 469 AGAGTCTCAAGTCAAAAGTGTGAGAACCTGTGAGAACCTGTGAGAACCTGTGAGAAC 410  
Oy 1087 TGTGAGGCTGACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTA 1146  
Db 409 AGTGAAGGCGCAGCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTA 350  
Oy 1147 TTCCCAAGGATTAATGATCTCTGTGAGAACAGCAACTGAAGAGGCTTCTTCTTC 1206  
Db 349 TTCCCAAGGATTAATGATCTCTGTGAGAACAGCAACTGAAGAGGCTTCTTCTTC 290  
Oy 1207 TGACCTTGCAGATGCTGTGATCTCTGTGAGAACAGCAACTGAAGAGGCTTCTTCTTC 1266  
Db 289 TGACCTTGCAGATGCTGTGATCTCTGTGAGAACAGCAACTGAAGAGGCTTCTTCTTC 230  
Oy 1267 GACTGACGAGGAGGAGGCTTGTGAGAACAGCAACTGAAGAGGCTTCTTCTTC 1318  
Db 229 GACGACGAGGAGGAGGCTTGTGAGAACAGCAACTGAAGAGGCTTCTTCTTC 178

## RESULT 3

US-10-198-12938

; Sequence 12938, Application US/10198846

; Publication NO. US2003009974A1

; GENERAL INFORMATION:

; APPLICANT: Lillie, James

; APPLICANT: Xu, Yongyao

; APPLICANT: Wang, Youzhen

; APPLICANT: Steinmann, Kathleen

; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS

; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; FILE REFERENCE: MRI-049  
; CURRENT APPLICATION NUMBER: US/10/198,846  
; PRIOR FILING DATE: 2002-07-18  
; PRIOR APPLICATION NUMBER: 60/306,220  
; NUMBER OF SEQ ID NOS: 14084  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO: 12938  
; LENGTH: 1614  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1613..1614  
; OTHER INFORMATION: n = A,T,C or G  
US-10-198-846-12938

Query Match 47.1%; Score 731.4; DB 14; Length 1614;  
Best Local Similarity 77.6%; Pred. No. 9.6e-217;  
Matches 1064; Conservative 0; Mismatches 211; Indels 96; Gaps 11;

Oy 1 GTGATGTTATCTTGTGCTCTGACAGAGCAGCAGAGAGGATGGCTCAGAAAATGTC 60  
Db 101 GTGATGTTATCTTGTGCTCTGACAGAGCAGCAGAGAGGATGGCTCAGAAAATGTC 160  
Oy 61 CCTGCCGACAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 120  
Db 161 CCTGCCGACAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 220  
Oy 121 CTGTGTCTGTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180  
Db 221 CTGTGTCTGTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 280  
Oy 181 TAGATGA-GTCCCAAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 221  
Db 281 TAGATGAAGTAAAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 340  
Oy 222 TCTGTAATCTTCCGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 281  
Db 341 TTAATAGTAAACAGTCTTACTCTAGAGGAGGAGTGTGCTTCCAGCTTACGTAAATCT 400  
Oy 282 TTGCA-----TCCCTCTGTTGCTGAGAGTGGCAATGTTG 321  
Db 401 CGCGATATGTGGCTGGGCACTATTTCCATTAGAGGAAACTGCACAGATTAAGTAT 460  
Oy 322 ATTAGTGTGAACCCAGCCACACATAGTAAATACACTTCTGACCAATGACT 381  
Db 461 TTACTGCTGTGACACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 520  
Oy 382 GACTGAGAGATGATGAGAGG-GTCTGCAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 440  
Db 521 TTAACCCATCTAATGTTGCTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 580  
Oy 441 ATCCGCTATCTTCCAGCCATGAAGCCATACCTGGA----- 479  
Db 581 GTTTCCTATCTGTAACAGTAAATACCAAACTGATGATGCCCACTAAGGTTTCA 640  
Oy 480 -----ACACATGAG 512  
Db 641 CTTCGAGCTTGCAGATGTAGAAATCTGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 700  
Oy 513 TGGAGAAAG 572  
Db 701 TGGAGAAAG 760  
Oy 573 TCAACAACTGTGTGCTAAAGGCTTGGAGCTTGTGACTCCAGAGCCCATATCTTCA 632  
Db 761 TCAACAACTGTGTGCTAAAGGCTTGGAGCTTGTGACTCCAGAGCCCATATCTTCA 820  
Oy 633 AAGTCCCACTACCTTACAGAGGAGAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 692

Db 821 AAGCTCCCACTACCTTACAGAGGAAACCCAGATAGATTCAAGCTTAACTACACCC 880  
QY 693 AAGACCTGACAAAGATCATGTCTGCAGTGAAGGAATTCAGGTGTTCTGCTACTTCT 752  
Db 881 AAGACCTGACAAAGATCATGTCTGCAGTGAAGGAATTCAGGTGTTCTGCTACTTCT 940  
QY 753 TTTCTGCTAGAGCTGTGTAATGAGAAACAACGATTAATCTGAATTTACTCAGAGG 812  
Db 941 TTTCTGCTAGAGCTGTGTAATGAGAAACAACGATTAATCTGAATTTACTCAGAGG 1000  
QY 813 CTTTATGACAGGTGAGATTTCTTTCCCGAACAACATTTATCGAAGAGGAA 872  
Db 1001 CTTTATGACAGGTGAGATTTCTTTCCCGAACAACATTTATCGAAGAGGAA 1060  
QY 873 TTTCTGCTAGAGCTGTGTAATGAGAAACAACGATTAATCTGAATTTACTCAGAGG 932  
Db 1061 TTTCTGCTAGAGCTGTGTAATGAGAAACAACGATTAATCTGAATTTACTCAGAGG 1120  
QY 933 ATGAATCTGCTCCTCGGACACCATGATTCGAATTAAGACACCTTAACTATCTC 992  
Db 1121 ATGAATCTGCTCCTCGGACACCATGATTCGAATTAAGACACCTTAACTATCTC 1180  
QY 993 ATATTCGCTTACCCCTGCGGTGGGAGAACTTAGAGTCTCAAGTCAAGTCTGGCC 1052  
Db 1181 ATATTCGCTTACCCCTGCGGTGGGAGAACTTAGAGTCTCAAGTCAAGTCTGGCC 1240  
QY 1053 TGTGCTGCTGCTGCTGAGGACAGCTCTGAGGCTGTTGAGGCTGACTTACCTCAG 1112  
Db 1241 TGTGCTGCTGCTGAGGACAGCTCTGAGGCTGTTGAGGCTGACTTACCTCAG 1297  
QY 1113 GTGAGATGCTCCATCATGATCTTGGATGCTGCTTCCCAAGGAATTAATGCTATCTC 1172  
Db 1298 GTGAGATGCTCCATCATGATCTTGGATGCTGCTTCCCAAGGAATTAATGCTATCTC 1355  
QY 1173 GTGAGACAGCAACCTGAGAGGCTCTTCTTCTGACCTTGAATTAATGCTATCTC 1232  
Db 1356 GTGAGACAGCAACCTGAGAGGCTCTTCTTCTGACCTTGAATTAATGCTATCTC 1415  
QY 1233 ACTTGAGATTAAGATTAATTAATCTTACAGAGACTGACAGGACCTC 1283  
Db 1416 ACTTGAGG---ATGAGATTAATTAATCTTCTGAGAGCTGACAGGACCTC 1463

RESULT 4  
US-10-027-632-161386/c  
; Sequence 161386, Application US/10027632  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; PRIOR FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 161386  
; LENGTH: 817  
; TYPE: DNA  
; ORGANISM: Human

US-10-027-632-161386  
Query Match 29.6%; Score 459.6; DB 13; Length 817;  
Best Local Similarity 78.9%; Pred. No. 3.3e-132;  
Matches 644; Conservative 2; Mismatches 136; Indels 34; Gaps 7;

QY 289 CCTCTGCTTCTGAGAGTTGGAGCAATGTTGGATTTACTGTGGAACCAAGCCACACCA 348  
Db 787 CCTCTGATTTGCTAAAGTTGTGACAAAT-ATGATTAATGAGGAGCAAGGACACCA 729  
QY 349 TACTGTAATTAACCTTCTGACCAATGACCTGAGAGAGTGAAGTGAAGAGGTGCT 408  
Db 728 TGTCTATTAACCA-TCCTCAGACCAATGATGAGGAGGAGTATGAGAGGTGCT 670  
QY 409 GCAAAAGAGGACAGACCTATTTCTCTACCAATCCCTATCTCCAGCCATGAAGG 468  
Db 669 G-TAAGGAAGGACAGACCTATTTCTCTGACCAATCCCAATTTTCAAGCTAATAGGA 611  
QY 469 CATTAACCTGGAACACATGGAAGAGGCGCTGTGATCGGGCTCTGAGAACAGAGTGG 528  
Db 610 CATTAACCTGGAACACCTGGAAGAGGCGCTGTGATCGGGCTGTGAGAACAGAGTGG 551  
QY 529 TATCTACTCTCTCATACAGACCTATGATGCTGCGCCCAAGGCGTCAAACTGCTGGC 588  
Db 550 TATGATTTTCCCTACATGACCTATGATGCTGACCCAGGAGGTTGCAAGTGTGGC 491  
QY 589 TAAAGGCTTGGAGCTTGTACTCCAGGCGCATACATCTTCCAAAGCTCCCACTAACCC 648  
Db 490 TAAAGGCTTGGAGCTTGTACTCCAGGCGCATACATCTTCCAAAGCTCCCACTAACCC 431  
QY 649 TACAGAGGGAACCAACCGAGTGAATTAACCTTAACCAACCAAGCTGAGCAAGT 708  
Db 430 CATAGAG-----AACCAACCAAGAGCTGAGCAAGT 399  
QY 709 CATGCTGAGAGT-AAAGGAATGAGGCTTCTGCTACTCTTTTCTGCGAGAGCTG 767  
Db 398 CAGCTTGCAGTAAAGAGTGAATGATTTCTTCTGCTCTCTCTCTCTCTCTCTCTCTCT 339  
QY 768 GTAATGAGGAACCAACCGATTAATCTGAATTTGATCTGAGAGCTTTGATGAGAGTGG 827  
Db 338 ATGATGAAGGAACCAACCGATTAATCTGAATTTGATCTGAGAGCTTTGATGAGAGTGG 279  
QY 828 TAGATTTCTTCTCCGGAACCAACCTTATGAGAGGAGGAATTTCTGCTAGAGA 887  
Db 278 TGGCTTTTCTCTCCGAGCACTTAATGATGAGAGGAGTGAATTAATGAT-ACTGAGA 220  
QY 888 AGCCTTGTCTACATGATGAGAGGAGGAGGTTATGACACACTGATGATGATCTGCC 947  
Db 219 AGCCTTGTCTACATGATGAGAGGAGGAGGTTATGATGATGATGATGATGATCTGCC 160  
QY 948 TGGCAACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1007  
Db 159 TGGCAACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 100  
QY 1008 TTGGGCTGGGAGACCTTAGAG-TCCTCAAGTAAAGTGTGGCCCTGTGTGCTTCT 1066  
Db 99 TTGAGCTAGAGAGGATGAGAGGCTTAAAGTCAAGTGTGGCCCTGTGTGCTTCT 40  
QY 1067 GGGAGCAGGCTTGCAGGCTGTTGAGGCTGAGCCTT 1102  
Db 39 GGGAGCAGGCTTGCAGGCTGTTGAGGCTGAGCCTT 4

RESULT 5  
US-10-027-632-161387/c  
; Sequence 161387, Application US/10027632  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; PRIOR FILING DATE: 2002-04-30



OY 308 TGGCAAAATGTTGATTAATCTGTTGAGAACCAACCCACACATATCTGTAATACACTCTTC 367  
DB 211 TGGGCAATATGTTGATTAATCTGTTGAGAACCAACCCACACATATCTGTAATACACTCTTC 270  
OY 368 CTGACCAATGACCTACTGAGAGATGATGAGAGGAGTCTGCAAAAGAGACAGACCTTC 427  
DB 271 CTGACCAATGACCTACTGAGAGATGATGAGAGGAGTCTGCAAAAGAGAGACAGACCTTC 330  
OY 428 ATTCCTCTACATCCGCTATCTTCCGACCCATGAGAGCCATATCACTGTAATACACTCTTC 487  
DB 331 ATTCCTCTACATCCGCTATCTTCCGACCCATGAGAGCCATATCACTGTAATACACTCTTC 390  
OY 488 AAGAGCGCTGCTGATGATCCGCTCTGAGAGAAC-AGAATCGGATCTACTCTCTCATAC 546  
DB 391 AAGAGCGCTGCTGATGATCCGCTCTGAGAGAAC-AGAATCGGATCTACTCTCTCATAC 450  
OY 547 AGCCTATGATGCTGAG 605  
DB 451 AGCCTATGATGCTGAG 510  
OY 606 GTACCT 611  
DB 511 GTACCT 516

## RESULT 7

US-09-918-995-19746  
; Sequence 19746, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: FROM VARIOUS CDNA LIBRARIES  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 19746  
; LENGTH: 480  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(480)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-19746

Query Match 25.3%; Score 392.2; DB 11; Length 480;  
Best Local Similarity 98.6%; Pred. No. 2.4e-111;  
Matches 427; Conservative 0; Mismatches 3; Indels 3; Gaps 3;  
OY 962 GATCAATTAATAAGACACCTTAATATCTCATATTCCTTACCCCTTGGGCTGGGAGA 1021  
DB 50 GATCAATTAATAAGACACCTTAATATCTCATATTCCTTACCCCTTGGGCTGGGAGA 109  
OY 1022 ACCCTAGAGTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 1081  
DB 110 ACCCTAGAGTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 169  
OY 1082 CAGGCTGTGAGGCTGACCTTACCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 1141  
DB 170 CAGGCTGTGAGGCTGACCTTACCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 229  
OY 1142 GCTGCTTCCCAAGATTAATATCTCATCTCTGTAACACAGACACAGACAGACAGAGCTTT 1201  
DB 230 GCTGCTTCCCAAGATTAATATCTCATCTCTGTAACACAGACACAGACAGAGAGCTTT 289  
OY 1202 CTTTGTGACCTTCGAGATATGCTGATTCCTCACTTGGAGAAATTAATTAATTCCTA 1261  
DB 290 CTTTGTGACCTTCGAGATATGCTGATTCCTCACTTGGAGAAATTAATTAATTCCTA 349

OY 1262 TCAGAGACTGACAGGAGACCCCTTTCAGTGTGATATTCAGAAACATCAGATTAACACA 1321  
DB 350 TCAGAGACTGACAGGAGACCCCTTTCAGTGTGATATTCAGAAACATCAGATTAACACA 409  
OY 1322 TTCCTAACAATCAGCTGATGAGGCCAATTAAATTTGTAAACATGATCAGTGGAGCTGTG 1381  
DB 410 TTCCTAACAATCAGCTGATGAGGCCAATTAAATTTGTAAACATGATCAGTGGAGCTGTG 467  
OY 1382 TGCTTCCAGAGAG 1394  
DB 468 -GCTTCCAGAGAG 479

## RESULT 8

US-09-960-352-10848  
; Sequence 10848, Application US/09960352  
; Patent No. US20020137139A1  
; GENERAL INFORMATION:  
; APPLICANT: Warren, Wesley C.  
; APPLICANT: Tao, Nengbing  
; APPLICANT: Byatt, John C.  
; APPLICANT: Mathalagan, Nagappan  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND  
; FILE REFERENCE: 16511, 006/37-21(10298)C  
; CURRENT APPLICATION NUMBER: US/09/960,352  
; CURRENT FILING DATE: 2001-09-24  
; NUMBER OF SEQ ID NOS: 15112  
; SEQ ID NO 10848  
; LENGTH: 394  
; TYPE: DNA  
; ORGANISM: Bos taurus  
; OTHER INFORMATION: Clone ID: 46-LIB34-084-Q1-E1-D6  
US-09-960-352-10848

Query Match 18.6%; Score 288.2; DB 10; Length 394;  
Best Local Similarity 91.6%; Pred. No. 5.5e-79;  
Matches 305; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

OY 188 GTCCCAAGACAGAGCTGCTGTTGTGATTCCTGATCTGCAATTCCTCCGCTTCCTCATG 247  
DB 62 GTCCCAAGACAGAGCTGCTGTTGTGATTCCTGATCTGCAATTCCTCCGCTTCCTCATG 121  
OY 248 GATTTGAAGCTCTCTCTTCTCTCTGTAATGACTTGCATTCCTGTTCTGAGAGT 307  
DB 122 GATTTGAAGCTCTCTCTTCTCTCTGTAATGACTTGCATTCCTGTTCTGAGAGT 181  
OY 308 TGGGACAATGTTGATTAATCTGTTGAGAACCAACCCACACATCTGTAATACACTCTTC 367  
DB 182 TGGGACAATGTTGATTAATCTGTTGAGAACCAACCCACACATCTGTAATACACTCTTC 241  
OY 368 CTGACCAATGACCTGACTGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 427  
DB 242 CTGACCAATGACCTGACTGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 301  
OY 428 ATTCCTCTACATCCGCTATCTTCCGACCCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 487  
DB 302 ATTCCTCTACATCCGCTATCTTCCGACCCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 361  
OY 488 AAGAGCGCTGCTGATGATCCGCTCTGAGAGAG 520  
DB 362 AAGAGCGCTGCTGATGATCCGCTCTGAGAGAG 394

## RESULT 9

US-10-027-632-162668  
; Sequence 162668, Application US/10027632  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129

RESULT 11  
US-09-864-761-27152/c





```

1 APPLICANT: Rosen, Craig A.
2 APPLICANT: Ruben, Steven M.
3 TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2
4 FILE REFERENCE: PO-16.2c1
5 CURRENT APPLICATION NUMBER: US/09/783,590
6 PRIORITY FILING DATE: 2000-02-15
7 PRIOR APPLICATION NUMBER: 08/420,856
8 PRIOR FILING DATE: 1995-04-12
9 PRIOR APPLICATION NUMBER: 08/346,731
10 PRIOR FILING DATE: 1994-11-21
11 NUMBER OF SEQ ID NOS: 12485
12 SOFTWARE: PatentIn Ver. 2.0
13 SEQ ID NO 8477
14 LENGTH: 501
15 TYPE: DNA
16 ORGANISM: Homo sapiens
17 FEATURE:
18 NAME/KEY: misc feature
19 LOCATION: (10)
20 OTHER INFORMATION: n equals a,t,g, or c
21 NAME/KEY: misc feature
22 LOCATION: (48)
23 OTHER INFORMATION: n equals a,t,g, or c
24 NAME/KEY: misc feature
25 LOCATION: (98)
26 OTHER INFORMATION: n equals a,t,g, or c
27 NAME/KEY: misc feature
28 LOCATION: (141)
29 OTHER INFORMATION: n equals a,t,g, or c
30 NAME/KEY: misc feature
31 LOCATION: (173)
32 OTHER INFORMATION: n equals a,t,g, or c
33 NAME/KEY: misc feature
34 LOCATION: (229)
35 OTHER INFORMATION: n equals a,t,g, or c
36 NAME/KEY: misc feature
37 LOCATION: (315)
38 OTHER INFORMATION: n equals a,t,g, or c
39 NAME/KEY: misc feature
40 LOCATION: (358)
41 OTHER INFORMATION: n equals a,t,g, or c
42 NAME/KEY: misc feature
43 LOCATION: (376)
44 OTHER INFORMATION: n equals a,t,g, or c
45 NAME/KEY: misc feature
46 LOCATION: (391)
47 OTHER INFORMATION: n equals a,t,g, or c
48 NAME/KEY: misc feature
49 LOCATION: (404)
50 OTHER INFORMATION: n equals a,t,g, or c
51 NAME/KEY: misc feature
52 LOCATION: (411)
53 OTHER INFORMATION: n equals a,t,g, or c
54 NAME/KEY: misc feature
55 LOCATION: (427)
56 OTHER INFORMATION: n equals a,t,g, or c
57 NAME/KEY: misc feature
58 LOCATION: (430)
59 OTHER INFORMATION: n equals a,t,g, or c
60 NAME/KEY: misc feature
61 LOCATION: (461)
62 OTHER INFORMATION: n equals a,t,g, or c
63 NAME/KEY: misc feature
64 LOCATION: (465)
65 OTHER INFORMATION: n equals a,t,g, or c
66 NAME/KEY: misc feature
67 LOCATION: (467)
68 OTHER INFORMATION: n equals a,t,g, or c
69 NAME/KEY: misc feature
70 LOCATION: (473)
71 OTHER INFORMATION: n equals a,t,g, or c
72 NAME/KEY: misc feature
73 LOCATION: (479)

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; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (487)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (492)
; OTHER INFORMATION: n equals a,t,g, or c
; IS-09-783-590-8477
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Query Match	10.8%	Score 167.8;	DB 10;	Length 501;
Best Local Similarity	96.8%;	Pred. No. 2.2e-41;		
Matches 180;	Conservative 0;	Mismatches 5;	Indels 1;	Gaps 1

OY		ATTGTTATCTGTGGTCTGCAGAGGACACAGAAAGAGGAGATTGGGTACAAAACTGCCCT	63
Db	93	ATTGTTATCTGTGGTCTGCAGAGGACACAGAAAGAGGAGATTGGGTACAAAACTGCCCT	152
OY	64	GCCGCACACAGACACAGCGC - ACTAGTGGAACAGGGTCCTGACTCAAGACTTAATGGCT	122
Db	153	GCCGCACCAAAGGACACAGCGCNACTAGTGGAGAACGGGGTCCTGACTCAAACTTAATGGCT	212
OY	123	GTCGTCTGTGGTTTTTCACTGTCTGTGAAAAGGCTGAATGGGCACTGAAAATGAGCATTA	182
Db	213	GTCGTCTGTGGTTTTTNNACTGTCTGTGAAAAGGCTGAATGGGCACTGAAAATGAGCATTA	272
OY	183	GATGAG 188	
Db	273	GATGAG 278	

RESULT 14  
US-09-974-300-2768  
; Sequence 2768, Application US/09974300

```

1  TITLE OF INVENTION: Methods For Monitoring Multiple Genes
2
3  TITLE OF INVENTION: Expression
4  FILE REFERENCE: 10085,500-US
5
6  CURRENT APPLICATION NUMBER: US/09/974,300
7
8  CURRENT FILING DATE: 2001-10-05
9
10 PRIOR APPLICATION NUMBER: 09/680,598
11
12 PRIOR FILING DATE: 2000-10-06
13
14 PRIOR APPLICATION NUMBER: 60/279,526
15
16 PRIOR FILING DATE: 2001-03-27
17
18 NUMBER OF SEQ ID NOS: 8481
19
20 SOFTWARE: FastSeq for Windows Version 4.0
21
22 SEQ ID NO 2768
23
24 LENGTH: 805
25
26 TYPE: DNA
27
28 ORGANISM: Bacillus licheniformis
29
30 FEATURE:
31
32 NAME/KEY: misc_feature
33
34 LOCATION: (1)..(805)
35
36 OTHER INFORMATION: n - A,T,C or G
37
38 US-09-974-300-2768

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Query Match	3.18; Score 47.6; DB 10; Length 805;
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Matches 125; Conservative 0; Mismatches 129; Indels 0; Gaps 0;

348 ATACTGTAAATACACTCTTCTCTGACCATGACCTGACTGAGGAAGCATGGAGAGGTGC 407  
 113 AAMCGGTGGCCAAATGTCATGGTCAACGCTTGATGTTCTCGAAGAAACGTTGATGAAACGA 172

408 TGCAGAAAGAGGCAGACCTATTTCCTCCATCCGCGCATCTTCGACCCATGAGC 467  
 173 TCGCAAGACGTTGATTATTAATTATGCGCACCATCCCGCTTTTCAGGGCGCTGAAC 232

468 GCATTAACCTGGGAACACATGGAAGGAGCGCTCGGTGATCCGGGCTCTGGAGAACAGAGACTCG 527  
 233 ATGTCATCAAGATCAGCCCGCGGGAAGCTGATCGAAAAGTCATCAACAGCATGATATCG 292

